-326.rl

APPLEGATE AREA, THOMPSON CREEK UNIT, RECONNAISSANCE
OF INFESTATION, JUNE 29, 1916

J.E. PATTERSON ASHLAND, OREGON JANUARY, 1918 APPLEGATE AREA.

THOMPSON CREEK UNIT.

Pacific Slope Station, June 29, 1916.

- 1. Period of examination June 29, 1916. Orused by J.D. Riggs and J.B. Patterson. Deta compiled by J. E. Patterson. This area west estimated by a suncer recommissance. a few champs of infeter this were, examined x
- Location of unit: The Thompson Creek Unit includes the watersheds of Thompson Creek, East McWilliams Creek and Nine Lile Creek. It includes parts of Townships 38-59 s. R 4 W. Mm. Mor., and parts of Townships 39 s. R 5W. Wm. Mer. It is bounded on the north by the Applegate River; on the east by the high divide between this and the Mt. Ben Unit; on the south by the high divide between this unit end the Steamboat Unit; on the west by East McWilliams Creek. Approximate area 37 square miles.
- 3. General Topography: Very steep slopes of east and west exposures. Deep creek canyons withprecipitis walls. Elevations ranging from 1300 to 4600 feet, with the average of yellow pine infestation of about 2000 feet.
- 4. Character and stand of timber: Medium stand of yellow pine and Douglas fir on the intermediate elevations. On the lower elevations and along the creeks the stand is light with a large percentage of black oak and alder. In the higher elevations the subslipine type cuts in replacing the pine. Probably 75% of the yellow pine in this Unit is mature and past very little cutting has been done on this Unit is mature and past very little cutting has been done on this Unit. Old burns, evidence of past fires which has thinned the stand in various places, exist in the yellow pine zone. The former stand inthese burns is rapidly being replaced by new growth. The chaparral type on the lower and intermediate elevations is heavy.
- 5. Species of trees infested: The infested species consist of yellow pine, sugar pine and Douglas fir. Infested specimens of the last two species were few in number and scattered over the Unit within their range.
- 6. Species of Primary Insects: Dendroctonus brevicomis, Dendroctonus monticolae, Ips confusus, Melanophila sp.
  Percentage of primary infestation (estimated).

Dendroctomus brovicomis	60%	89%	
Dendroctomus monticolae	03,	5%	Figured from
Ips confusus and top killed	35%	4%	% of Board test.
Molanophila sp.	023	2%	70 / 5111/
Total	100%	100%	

- 7. Past infestation. Abandoned trees:
  From present conditions it would appear that past infestation has been small. This Unit is very similar to adjacent units in regard to previous infestation. Ghost trees and abandoned trees are not conspicuous, they do not exceed 4 or 5 trees to the section. The present depredations are the result of recent invasion.
- 8. Present infestation: (estimated).

#### Yellow pinw.

1914 -2 gen. 1915-1 gen.	infested. 10 16	<b>30</b> 28	110	beard feet. 1 11700 14240
1915-2 gen.	55	25	90	32450
Ips confusus. 1914 gen. trees. 1915 gen. trees.	<b>7</b> 6	12 12	50 50	115
Top killed and diseased.	8	20	70	1800
Sugar pine. D. monticolae. 1915 gen.	5	30	100	3900
Douglas fir. Melanophila sp. 1915 gen.	3	24	100	1410
Totals	112			65695

<sup>\*</sup> Scribner's rule for California.

# SUMMARY - TROUPS OF CREEK AREA. APPLEGATE AREA.

- 1. Legation: Situated on the south side of the lever Applegate River it includes the vateraheds of Thompson and Fine Mile Greeks. It includes approximately 53 square miles in Townships 56 and 59 S., Ranges 4 and 5 E., Willemette Meridian.
- R. Area: Approximate total area 21,120 Acres 22,000 "
- 5. General Topography: Very steep slopes of east and west exposures, deep canyons with steep walls, small open valleys. Elevations range from 1300 to 4000 feet. The pine stand extends throughout this range of elevation with an average of 200 feet.
- 4. Character and Stand of Timber: Medium stand of yellow pine and Douglas fir on the intermediate elevations. On the lever elevations and along the creeks the stand is light with a large percentage of Black oak and alder. On the higher elevations the fir type predominates. Probably 75% of the yellow pine stand is mature and past. The chaparrall type in eld barns in the intermediate and lever elevations is heavy.

Examinations: Examinations and recommaissance of this unit was made in the spring of 1916 by J. D. Riggs and J. E. Patterson and in 1917 by J. E. Patterson.

Ashland, Oregon, January 1918,

#### Applegate Area

Thompson Creek Unit.

Reconnaissance of July 25-30.1918.

Yellow pine

Den.brevicomis.

In a close reconnaissance of the Thompson Creek basin, on July 28.1918,19 insect killed trees were noted as having been infested by the broods of both generations of 1917.

In the estimates, allowances were made for 5 additional trees and the generations separated as follows:

1917		n'ted	est'd	dbh
lst	Gen	7	Э	26
and	Gen	12	15	26.

From notes of July 28.1918:-"Thompson Creek- Some little stand of second grade pine timber in this basin and very little infestation. The situation presents itself in a way that it is easy to determine that a decrease of infestation has taken place when conditions of 1917 are compared with those of 1916."

### Applegate Area

Thompson Creek Unit.

Reconnaissance of July 25-30,1918.

Yellow vine

Den brevicomis.

In a close reconnaissance of the Thompson Creek basin, on July 28.1918,19 insect killed trees were noted as having been infested by the broods of both generations of 1917.

In the estimates, allowances were made for 5 additional trees and the generations separated as follows:

 1917
 n'ted
 est'd
 d b h

 1st Gen
 7
 9
 26

 2nd Gen
 13
 15
 36

From notes of July 28.1918:-"Thompson Creek- Some little stand of second grade pine timber in this basin and very little infestation. The situation presents itself in a way that it is easy to determine that a decrease of infestation has taken place when conditions of 1917 are compared with those of 1916."

## THOMPSON OFFICE - UNIT

## Summary of Loss by Years.

Year Species	No. Trees.	Av.D.B.H.	% of Annual Loss	% increase or decrease over preced- ing year.	
1914 Yellow Pine	And the second s	ingeniere — sommit yn riedde ogged ogged og dernege eu vere redde i'r ewe i'r			parkerings significance (Fig. 16, 150-14)
D.brovicomis 2nd.Gen.	10		, m. p.		
lps	7	30 12	59.		
Total	17				
			# HO 42		
1018					
1915 Yellow Pine					
D. brevicomis					
lst.Gen.	16 55	28	435		Marin T
Ips	6	12	78.9	+610.	
Top-killed	8**	20	7.		
Sugar Pine D.monticolae	5	50	9.86		
Douglas Fir	90				
Melanophilasp	- 0	24			-
Total	85		12.0		
1916 Teilow Pine					
D. brevicomis					
lat.Gen.	15	26	100		
2nd. Cot al	46 <u>-</u> 61	25	100.	-13.76	and a second
	04		-		
			300	2036	
1917					
Yellow Pine D. brevicomis			4-10		
lst. Gen.	9	26			- 14
2nd. Gen.	15	26	100	-60%	
Total	7 24	,		1	
	/				
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